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UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Agricultural Economics



In cooperation with

NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS

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APPLE MANUFACTURES

THE USE OF APPLES IN CIDER MILLS,

EVAPORATORS AND CANNERIES IN NEW YORK STATE

1937- 41

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Albany, New York
May 1942

APPLE MANUFACTURES, 1937-41

This summary of the quantity of apples received at cider mills, evaporators and canneries from the crops of 1937 to 1941, together with a statement of products manufactured and other pertinent data, indicate the extensive nature of the apple products industry in New York, the wide variation in volume from year to year, and the general range of prices received by producers for apples to be used in fruit products.

The variation in the number of establishments reporting from year to year is characteristic of the industry. In years of light production, many establishments do not open for operations. There is, however, a downward trend in the number of cider mills and evaporators, several establishments, especially outside the more intensive apple regions, going out of business each year because of fires, dismantling or abandonment. Very few are being built.

Facilities available for additional processing of apples are indicated by the fact that there were listed as not used for processing apples in 1940 and 1941, the following: Cider mills 197 in 1940 and 161 in 1941; evaporators 38 and 30; establishments canning apples or carrying on similar processes 13 and 9. In the main, the closed establishments were generally those having relatively small capacity and many of them were probably poorly equipped.

It is notable that in 1941 74 percent of the total apples received at cider mills were taken in at 6 percent of the mills which handled more than 25,000 bushels each during the season, while only 26 percent of the apples were received at the remaining 94 percent of the mills, each of which received less than 25,000 bushels.

The totals of apples and products are believed comparably complete from year to year. In each year there have been a few establishments from which reports have not been available. In those cases estimates on the best available basis have been included.

The cooperation of the owners or operators of the establishments who furnished information concerning their own businesses is acknowledged with appreciation.

(The Bureau of Markets of the Department of Agriculture and Markets gave cooperation in obtaining reports. The compilations were made in the Bureau of Statistics.)

R. L. GILLET, Director of Agricultural
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Table 1 - Apples and apple products in cider mills, evaporators and canneries, New York, 1937-41

Year	Cider mills	Evaporators	Canneries	Total
<u>Establishments in operation, No. 1/</u>				
1937	573	47	27	640
1938	452	29	22	500
1939	504	45	26	573
1940	383	19	27	427
1941	410	26	29	461
<u>Apples received, net bushels 2/</u>				
1937	4,434,300	1,284,800	1,873,100	7,592,200
1938	2,621,800	373,900	866,200	3,861,900
1939	4,772,900	1,207,100	2,381,900	8,361,900
1940	2,309,000	199,400	1,686,600	4,195,000
1941	3,720,200	536,700	3,022,600	7,279,500
<u>Quantity of apples (included above) from other States, bushels</u>				
1937	9,600	-	1,000	10,600
1938	10,300	-	200	10,500
1939	6,800	-	600	7,400
1940	5,800	-	4,700	10,500
1941	11,700	-	5,800	17,500
<u>Average price paid for apples, per 100 lbs. 3/</u>				
1937	\$.22	\$.33	\$.43	\$.29
1938	.26	.28	.58	.34
1939	.18	.27	.43	.26
1940	.28	.29	.75	.47
1941	.34	.57	1.19	.72
<u>Average date operations started and stopped 4/</u>				
	<u>Start</u> <u>Stop</u>	<u>Start</u> <u>Stop</u>	<u>Start</u> <u>Stop</u>	
1937	Oct. 4 Dec. 1	Oct. 4 Dec. 5	Oct. 6 Dec. 9	
1938	Oct. 4 Nov. 30	Oct. 5 Nov. 16	Oct. 11 Nov. 18	
1939	Oct. 2 Dec. 6	Oct. 8 Dec. 19	Sept. 28 Dec. 7	
1940	Oct. 7 Dec. 7	Oct. 15 Nov. 28	Oct. 14 Dec. 17	
1941	Oct. 4 Dec. 6	Oct. 3 Dec. 9	Sept. 29 Dec. 18	
<u>Apples used for principal purposes:</u>				
<u>Used for cider, bushels 5/</u>				
1937	4,434,300	-	66,700	4,501,000
1938	2,621,800	-	9,000	2,630,800
1939	4,772,900	-	278,900	5,051,800
1940	2,309,000	-	69,100	2,378,100
1941	3,720,200	-	5,000	3,725,200
<u>Used for drying, bushels</u>				
1937	-	1,284,800	-	1,284,800
1938	-	373,900	-	373,900
1939	-	1,207,100	-	1,207,100
1940	-	199,400	-	199,400
1941	-	536,700	-	536,700
<u>Used for canned apples and apple sauce, bushels</u>				
1937	-	-	1,657,700	1,657,700
1938	-	-	790,100	790,100
1939	-	-	1,987,800	1,987,800
1940	-	-	1,351,500	1,351,500
1941	-	-	2,641,900	2,641,900

Table 1 - Apples and apple products in cider mills, evaporators and canneries, New York, 1937-41 - Continued

Year	Cider mills	Evaporators	Canneries	Total
Used for other factory products, bushels 6/				
1937	-	-	148,700	148,700
1938	-	-	67,100	67,100
1939	-	-	115,200	115,200
1940	-	-	266,000	266,000
1941	-	-	391,700	391,700

Principal products made:

<u>Cider pressed, gallons 5/</u>				
1937	18,493,800	-	353,600	18,847,400
1938	10,662,000	-	146,000	10,808,000
1939	19,949,600	-	1,707,000	21,656,600
1940	9,336,400	-	627,600	9,964,000
1941	16,645,000	-	412,000	17,057,000

<u>Apple juice, gallons 5/, 6/</u>				
1940	2,665,300	-	695,000	3,360,300
1941	2,860,300	-	806,400	3,666,700

<u>Dried apples, pounds</u>				
1937	-	7,101,200	-	7,101,200
1938	-	2,147,700	-	2,147,700
1939	-	7,076,700	-	7,076,700
1940	-	869,000	-	869,000
1941	-	3,056,700	-	3,056,700

<u>Dried apple chops, pounds</u>				
1937	-	727,000	-	727,000
1938	-	192,300	-	192,300
1939	-	461,700	-	461,700
1940	-	469,400	-	469,400
1941	-	284,500	-	284,500

<u>Dried skins and cores, pomace and waste, pounds 7/</u>				
1937	-	2,426,300	-	2,426,300
1938	-	104,000	-	104,000
1939	-	612,000	-	612,000
1940	-	454,200	-	454,200
1941	-	1,419,200	-	1,419,200

<u>Canned apples and apple sauce, quantity of apples used for, bushels</u>				
1937	-	-	1,657,700	1,657,700
1938	-	-	790,100	790,100
1939	-	-	1,987,800	1,987,800
1940	-	-	1,351,500	1,351,500
1941	-	-	2,641,900	2,641,900

1/ In a few cases operations of more than one type were carried on in a given establishment. The last column is the net number of establishments reporting, 7 joint operations having been noted in 1937, 3 in 1938, 2 in 1939, 4 in 1940, 4 in 1941. "Custom" and "commercial" mills are included.

2/ Net receipts. Apples received at canneries and reported transferred to cider mills are included in cider mill receipts and not in cannery receipts. Of these there were reported, in bushels: 1937-20,100; 1938-8,100; 1939-35,600; 1940-28,700; 1941-65,600. Part of the apples were reported as bushels and part as pounds. One bushel assumed to equal 48 pounds.

Table 1 - Apples and apple products in cider mills, evaporators and canneries, New York, 1937-41 - Concluded

3/ These prices are the average of "average or prevailing prices" as reported, excluding cases where the special uses called for unusual grades, etc.

4/ Includes averages of usual operations. In a number of cases, intermittent or unusual operations extended into the following spring and are not included here. There is considerable difference in the length of the processing season at the various plants and in different parts of the State.

5/ Includes cider pressed from apple skins and cores. The quantity of apples used for cider in cider mills includes those used for "apple juice" in those establishments. No separate data were secured prior to 1940 when approximately 2,665,300 gallons of cider were sold as "apple juice", this term being equivalent to "sweet cider" in many cases, and about 29 percent of the total cider pressed in cider mills. In canneries, the "apple juice" first reported in 1940, is not included in cider pressed in those mills. In earlier years, apples used in canneries for "apple juice" were generally reported as used for products other than canned apples, apple sauce and cider.

6/ Including "apple juice" at canning factories, but not in cider mills where apples so used are included with those for cider. Small amounts of loss and shrinkage are included. Among other products in which these apples are used are jelly, apple butter, mincemeat, food for infants, frozen apples, and in 1941, some apples were sorted out and sold to packers without processing.

7/ In 1941, dried skins and cores amounted to 595,300 pounds and dried pomace 823,900 pounds.

Table 2 - Apples received at manufacturing plants, by districts,
crops of 1937-41 ^{1/}

District	Cider mills	Evaporators	Canneries	Total
1000 bushels (net)				
<u>Ontario</u>				
1937	2,604	1,167	1,612	5,383
1938	1,305	347	798	2,450
1939	2,912	1,153	2,190	6,255
1940	1,131	166	1,545	2,842
1941	2,225	465	2,807	5,497
<u>Mid-western</u>				
1937	324	88	200	612
1938	236	21	44	301
1939	392	20	141	553
1940	223	15	77	315
1941	265	32	111	408
<u>Hudson</u>				
1937	554	-	-	554
1938	390	-	-	390
1939	467	-	-	467
1940	289	-	-	289
1941	336	-	-	336
<u>Champlain</u>				
1937	14	-	-	14
1938	11	-	-	11
1939	15	-	-	15
1940	14	-	-	14
1941	22	-	-	22
<u>Other</u>				
1937	938	30	61	1,029
1938	680	6	24	710
1939	987	34	51	1,072
1940	652	18	65	735
1941	872	40	104	1,016
<u>State total</u>				
1937	4,434	1,285	1,873	7,592
1938	2,622	374	866	3,862
1939	4,773	1,207	2,382	8,362
1940	2,309	199	1,687	4,195
1941	3,720	537	3,022	7,279

^{1/} See footnotes Table 1 for explanations.

The districts here given include counties as follows:-

Ontario Dist:- Niagara, Orleans, Monroe, Wayne.

Mid-western Dist:- Erie, Genesee, Wyoming, Livingston, Ontario,
Yates, Seneca, Tompkins.

Hudson Dist:- Columbia, Dutchess, Putnam, Westchester, Greene,
Ulster, Orange, Rockland.

Champlain Dist:- Clinton, Essex.

Other Dist:- All counties not included above.

Table 3 - Cider made, by districts, crops of 1937-41 1/

District	: Cider mills	: Evaporators	: Canneries	: Total	
<u>1000 gallons</u>					
<u>Ontario</u>					
1937	11,619	-	354	11,973	
1938	5,617	-	146	5,763	
1939	12,758	-	1,707	14,465	
1940	4,885	-	628	5,513	
1941	10,958	-	412	11,370	
<u>Mid-western</u>					
1937	1,534	-	-	1,534	
1938	896	-	-	896	
1939	1,674	-	-	1,674	
1940	867	-	-	867	
1941	1,069	-	-	1,069	
<u>Hudson</u>					
1937	1,947	-	-	1,947	
1938	1,412	-	-	1,412	
1939	1,671	-	-	1,671	
1940	1,020	-	-	1,020	
1941	1,134	-	-	1,134	
<u>Champlain</u>					
1937	49	-	-	49	
1938	33	-	-	33	
1939	40	-	-	40	
1940	46	-	-	46	
1941	68	-	-	68	
<u>Other</u>					
1937	3,345	-	-	3,345	
1938	2,704	-	-	2,704	
1939	3,807	-	-	3,807	
1940	2,518	-	-	2,518	
1941	3,416	-	-	3,416	
State total-	1937	18,494	-	354	18,848
	1938	10,662	-	146	10,808
	1939	19,950	-	1,707	21,657
	1940	9,336	-	628	9,964
	1941	16,645	-	412	17,057

1/ See footnotes, Tables 1 and 2 for explanations.

Table 4 - "Apple juice", by districts, crops of 1940 and 1941 1/

District	Cider mills		Canneries		Total	
	1000 gallons		1000 gallons		1000 gallons	
	1940	1941	1940	1941	1940	1941
Ontario	1,234	1,197	695	794	1,929	1,991
Mid-western	289	322	-	-	289	322
Hudson	305	268	-	-	305	268
Champlain	15	33	-	-	15	33
Other	822	1,040	-	12	822	1,052
State total	2,665	2,860	695	806	3,360	3,666

1/ See footnote, Tables 1 and 2 for explanations.

Table 5 - Prices received for apples at manufacturing plants, by districts, crops of 1937-41 1/

District :	Cider mills :	Evaporators :	Canneries :	All
<u>Per 100 pounds</u>				
<u>Ontario</u>				
1937	\$.18	\$.33	\$.41	\$.28
1938	.23	.28	.57	.35
1939	.15	.27	.43	.27
1940	.26	.30	.74	.53
1941	.34	.59	1.19	.81
<u>Mid-western</u>				
1937	.24	.26	.52	.33
1938	.27	.25	.67	.33
1939	.19	.20	.46	.26
1940	.26	.25	.77	.39
1941	.34	.52	1.16	.58
<u>Hudson</u>				
1937	.25	-	-	.25
1938	.26	-	-	.26
1939	.24	-	-	.24
1940	.34	-	-	.34
1941	.38	-	-	.38
<u>Champlain</u>				
1937	.21	-	-	.21
1938	.46	-	-	.46
1939	.19	-	-	.19
1940	.30	-	-	.30
1941	.26	-	-	.26
<u>Other</u>				
1937	.29	.40	.52	.31
1938	.33	.20	.80	.34
1939	.25	.18	.55	.26
1940	.33	.25	.94	.36
1941	.34	.35	1.26	.44
<u>State average</u>				
1937	.22	.33	.43	.29
1938	.26	.28	.58	.34
1939	.18	.27	.43	.26
1940(Revised)	.28	.29	.75	.47
1941	.34	.57	1.19	.72

1/ See footnotes Tables 1 and 2 for explanations. The prices reported for individual plants were "average or prevailing prices to growers during season." The averages given here, by districts, are simple averages of the reports received from the various plants within the districts. The state average and the average for all types of plants are derived from the district prices, weighted by the quantity of apples received in each district and type of plant. Bushel taken as 48 pounds of apples.

Table 6 - Yield of apple products from 100 pounds of fresh apples 1/

Product and district	: 1937	: 1938	: 1939	: 1940	: 1941
<u>Cider from 100 pounds of fresh apples, gallons:</u>					
Ontario	7.6	7.3	7.2	7.5	7.4
Mid-western	7.0	7.1	6.9	7.0	7.0
Hudson	6.9	7.1	6.8	6.9	6.7
Champlain	6.3	6.5	7.0	7.2	6.6
Other	6.6	6.6	6.6	6.6	6.8
State average	7.3	7.1	7.0	7.1	7.2

Dried apples from 100 pounds of fresh apples, pounds:

State average	12.2	12.6	12.5	11.9	12.4
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Canned apples from 100 pounds of fresh apples, dozens No. 10 cans:

State average	.88	.85	.83	.84	.81
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Apple sauce from 100 pounds of fresh apples, cases of 24 No. 2 cans:

State average	2.59	2.61	2.60	2.60	2.51
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1/ The quantity of product reported as manufactured from 100 pounds of fresh apples varied rather widely. The above figures are averages of reports as received, except that for cider the state average is derived from the district averages by weighting by the quantity of apples received at cider mills in each district. If weighted by individual mills, the average yields would be somewhat higher since in the large mills which handle a relatively large proportion of the cider apples, yields ranging from 8.0 to 9.7 gallons of cider per 100 pounds of apples were reported. See footnote, Table 2, for counties included in various districts.

Table 7 - Cider mills grouped by quantity of apples received, New York crop of 1941 1/

Bushels received per mill	Mills in operation:		Apples received		
	: Number	: Percent	: Total (bushels)	: Percent	: Per mill (bus.)
Under 5,000	: 325	: 79.3	: 447,400	: 12.0	: 1,377
5,000 - 9,999	: 41	: 10.0	: 278,100	: 7.5	: 6,783
10,000 - 14,999	: 14	: 3.4	: 157,700	: 4.2	: 11,262
15,000 - 24,999	: 6	: 1.5	: 96,900	: 2.6	: 16,146
25,000 - 49,999	: 9	: 2.2	: 270,300	: 7.2	: 30,030
50,000 - 99,999	: 5	: 1.2	: 333,000	: 9.0	: 66,597
100,000 and over	: 10	: 2.4	: 2,136,800	: 57.5	: 213,680
Total	: 410	: 100.0	: 3,720,200	: 100.0	: 9,074

1/ A large number of the smaller mills do mainly a custom business, pressing apples for customers who bring their fruit and take the cider away.